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PPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/820,916	04/09/2004	Brittany L. Hayes	1700.118A	8768	
21176	7590 12/08/2004		EXAMINER		
	ALLAN, P.A. I COMMUNITY HOUS	HOANG	HOANG, TU BA		
SUITE 200	1 COMMONT 1 HOUS	ART UNIT	PAPER NUMBER		
CHARLOTTE	, NC 28277		3742		

DATE MAILED: 12/08/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicati	on No.	Applicant(s)	IN
Office Action Summary		10/820,9	16	HAYES ET AL.	V_{\sim}
		Examine	r	Art Unit	
		Tu Ba Ho		3742	<u> </u>
Period fo	The MAILING DATE of this communication or Reply	n appears on the	cover sheet with the c	correspondence ad	dress
A SH THE - Exter - If the - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR RIMAILING DATE OF THIS COMMUNICATION (SIGN) SIGN (SIGN) STATE OF THIS COMMUNICATION (SIX (6) MONTHS from the mailing date of this communication period for reply specified above is less than thirty (30) days, period for reply is specified above, the maximum statutory pre to reply within the set or extended period for reply will, by seply received by the Office later than three months after the ded patent term adjustment. See 37 CFR 1.704(b).	ON. FR 1.136(a). In no evon. a reply within the state oriod will apply and w statute, cause the app	ent, however, may a reply be tir utory minimum of thirty (30) day ill expire SIX (6) MONTHS from lication to become ABANDONE	nely filed /s will be considered timel the mailing date of this co ED (35 U.S.C. § 133).	
Status					
1)□ 2a)□ 3)□	Responsive to communication(s) filed on This action is FINAL . 2b) Since this application is in condition for all closed in accordance with the practice under the condition of the closed in accordance with the practice.	This action is r lowance except	for formal matters, pro		e merits is
Dispositi	on of Claims				
5)⊠ 6)⊠ 7)□	Claim(s) <u>1-20</u> is/are pending in the applicated 4a) Of the above claim(s) is/are with Claim(s) <u>6-20</u> is/are allowed. Claim(s) <u>1-5</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction a	hdrawn from co			
Applicati	on Papers				
10)⊠	The specification is objected to by the Example The drawing(s) filed on <u>09 April 2004</u> is/are Applicant may not request that any objection to Replacement drawing sheet(s) including the control of the oath or declaration is objected to by the	e: a)⊠ accepte o the drawing(s) to orrection is requir	ne held in abeyance. Se ed if the drawing(s) is ob	e 37 CFR 1.85(a). ejected to. See 37 Cl	
Priority ι	ınder 35 U.S.C. § 119				
a)[Acknowledgment is made of a claim for for All b) Some * c) None of: 1. Certified copies of the priority docur 2. Certified copies of the priority docur 3. Copies of the certified copies of the application from the International Business the attached detailed Office action for a	ments have bee ments have bee priority documoureau (PCT Rul	en received. en received in Applicat ents have been receive e 17.2(a)).	ion No ed in this National	Stage
2) ☐ Notic 3) ⊠ Inforr	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948 nation Disclosure Statement(s) (PTO-1449 or PTO/S r No(s)/Mail Date <u>07/22/04</u> .		4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate	O-152)

Art Unit: 3742

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112: The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 3-5 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 3 recites the limitations "the step of providing the flow of conduction fluid" in lies 1-2 and "the instrument" in line 2. There are insufficient antecedent bases for these limitations in the claim or from the preceding claim.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States

Claims 1-5 are rejected under 35 U.S.C. 102(b) as being anticipated by Schlie (US 5,235,251). Schlie shows a vessel 43 containing reactants in the region 49 (column 5, lines 4-7, i.e., nitrogen, inert gas, molecular gas, vaporous metal or halide salts) at which energy source 41 other than conduction heating of the vessel or the reactants (i.e., microwave source) is applied to the reactants in the vessel 43 while a hydraulic cooling fluid is for concurrently cooling the vessel 43 by conduction by contacting the exterior of the vessel with the fluid (i.e., at the region 53 in the cooling jacket 51), wherein a flow of gas (or air) is directed to the vessel by source 45 and vacuum 47. It is inherently that vaccum 47 must include a fan or motor in order to provide the flow of gas (i.e., by compression).

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure: Jennings et al (US 5,796,080), Barclay et al (US 5,972,711), Jennings (US 6,753,517), Hayes et al (US 6,744,024 and US 5,721,123), and Collins et al (US 2004/0020923).

Claims 6-20 are allowed.

The following is a statement of reasons for the indication of allowable subject matter: the prior art of record does not show the vessel is concurrently cooled by the flow of the conduction fluid against the vessel and the temperature of the vessel or its contents is concurrently monitored in the manner recited in claims 6 and 13.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tu Ba Hoang whose telephone number is (571) 272-4780. The examiner can normally be reached on Mon-fri from 8:30AM to 6:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robin Evans can be reached on (571) 272-4777.

Application/Control Number: 10/820,916

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Business Center (EBC) at 866-217-9197 (toll-free).

Tu Ba Hoang Primary Examiner Art Unit 3742 Page 3

November 29, 2004